



CTEH® Project #40442
West Fertilizer Plant Explosion
Summary of Air Monitoring Results
April 26, 2013 10:00

This data report discusses real-time air monitoring data collected between 4/25/2013 16:00 and 4/26/2013 07:00 in support of remediation operations conducted near the West Fertilizer Plant Explosion in West, TX.

Real-time air monitoring was conducted for volatile organic compounds (VOCs), ammonia (NH₃), nitrogen dioxide (NO₂), percent of the lower explosive limit (LEL) and oxygen (O₂) using remote-telemetering RAESystems® AreaRAEs and hand-held instruments such as the RAESystems® MultiRAE.

Tables 1 and 2 (below) display data summaries for hand-held and AreaRAE instruments, respectively. Site maps and charts are available as attachments.

Table 1: Hand-held Real-time Air Monitoring Summary¹
April 25, 2013 16:00 – April 26, 2013 07:00

Analyte	Instrument	Number of Readings	Number of Detections	Average of Detections	Range of Detections
Community					
VOC	MultiRAE	1	0	NA	< 0.1 ppm

¹Please note: The data displayed here has not undergone complete QA/QC analysis and is presented in a preliminary format.
PPM = Parts Per Million

Table 2
Stationary AreaRAE Monitoring Stations Data Logged
4/25/2013 16:00 to 4/26/2013 07:00

Unit	Analyte	Count of Readings	Count of Detections	Average of Detections	Max Detection
AR13	LEL	3524	0	NA	< 1 %
	NH3	3524	0	NA	< 1 ppm
	NO2	3524	0	NA	< 0.1 ppm
	O2	3524	3524	20.9 %	20.9 %
	VOC	3524	17	0.1 ppm	0.1 ppm
AR14	LEL	3460	0	NA	< 1 %
	NH3	3460	51	1 ppm	1 ppm
	NO2	3460	5	NA	0.1 ppm
	O2	3460	3460	20.9 %	21.2 %
	VOC	3460	193	0.2 ppm	0.4 ppm
AR16 Mobile Down Wind Unit	LEL	3536	0	NA	< 1 %
	NH3	3536	0	NA	< 1 ppm
	NO2	3536	0	NA	< 0.1 ppm
	O2	3536	3536	20.9 %	20.9 %
	VOC	3536	0	NA	< 0.1 ppm
AR17	LEL	3527	0	NA	< 1 %
	NH3	3527	0	NA	< 1 ppm
	NO2	3527	4	0.1 ppm	0.1 ppm
	O2	3527	3527	20.9 %	20.9 %
	VOC	3527	0	NA	< 0.1 ppm
AR18	LEL	3537	0	NA	< 1 %
	NH3	3537	0	NA	< 1 ppm
	NO2	3537	0	NA	< 0.1 ppm
	O2	3537	3537	21.0 %	21.4 %
	VOC	3537	0	NA	< 0.1 ppm

¹ The data in this table may include electronic drift. Drift is defined as any interference in the electrochemical sensor's ability to accurately report the concentration of a chemical in the atmosphere. Humidity and temperature changes throughout the monitoring period are typical sources of drift. Additionally, the data has not undergone complete QAQC as of this time.



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Appendix

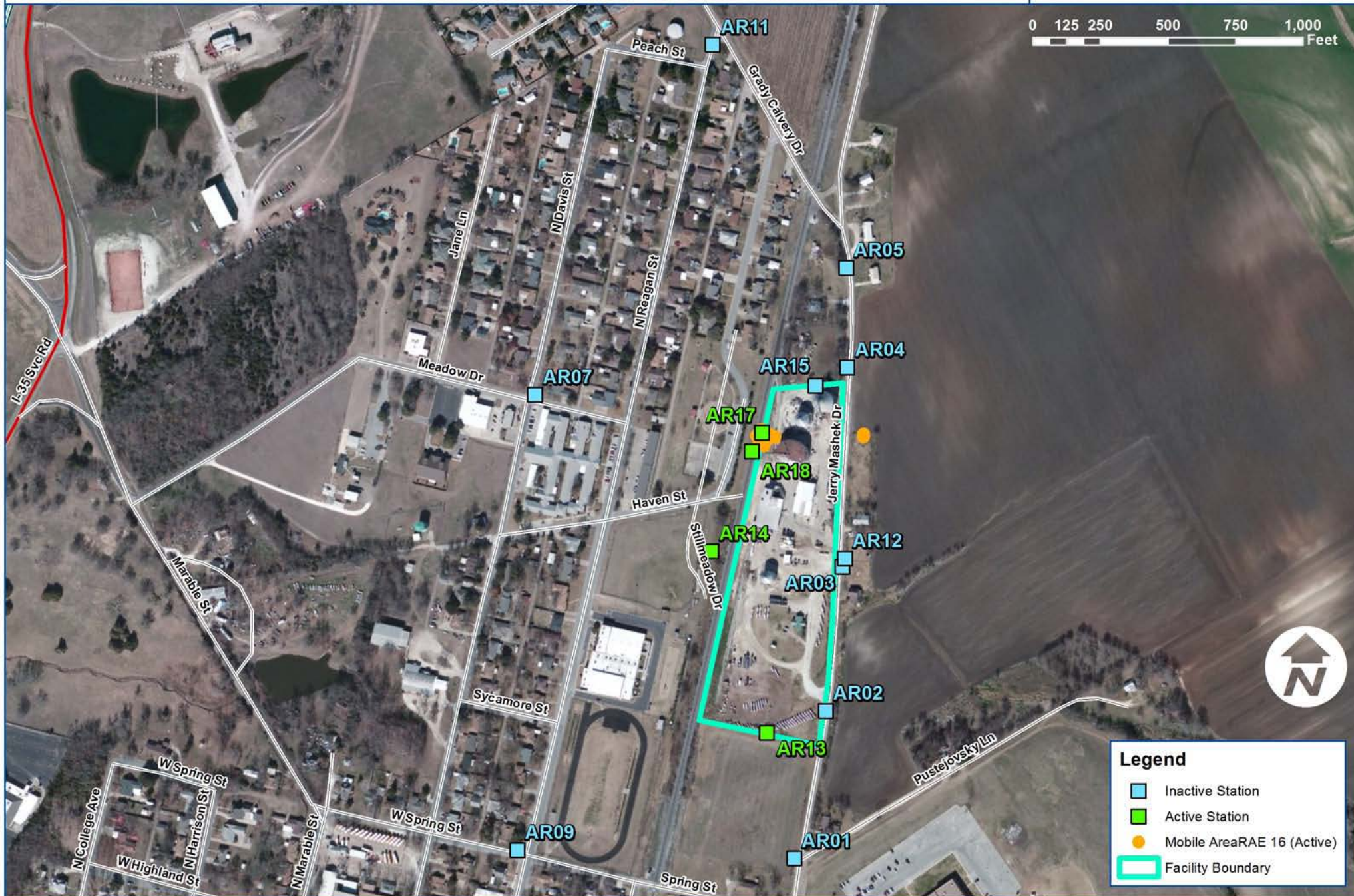
Air Monitoring Zone Classifications¹ April 26, 2013

Project: 40442
Client: OMI
City: West, TX
County: McLennan



AreaRAE Monitoring Station Locations 4/18/2013 to 4/26/2013

Project: 40442
Client: OMI
City: West, TX
County: McLennan

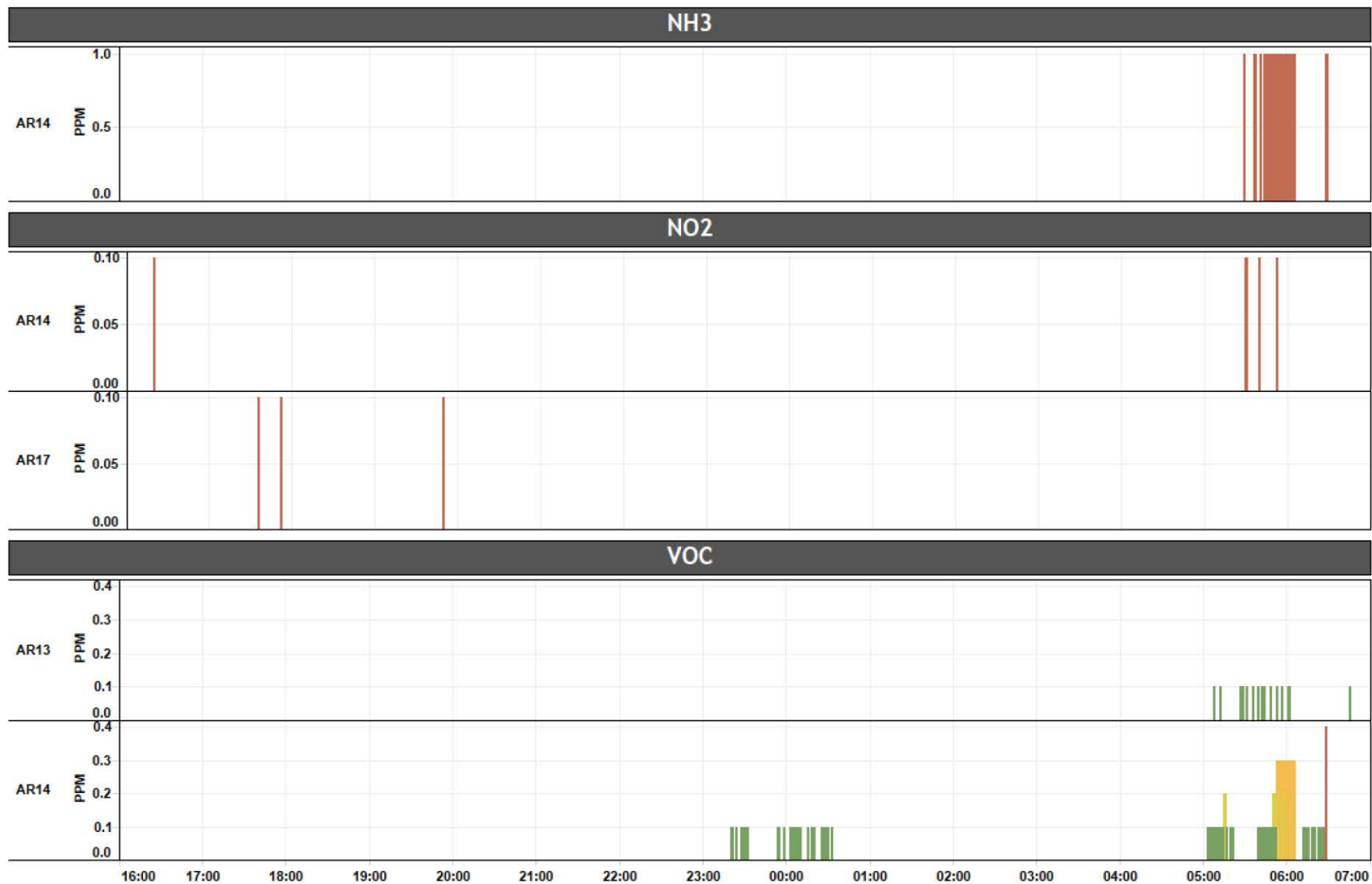


Legend

- Inactive Station
- Active Station
- Mobile AreaRAE 16 (Active)
- Facility Boundary



AreaRAE Detections
4/25/2013 16:00 to 4/26/2013 07:00

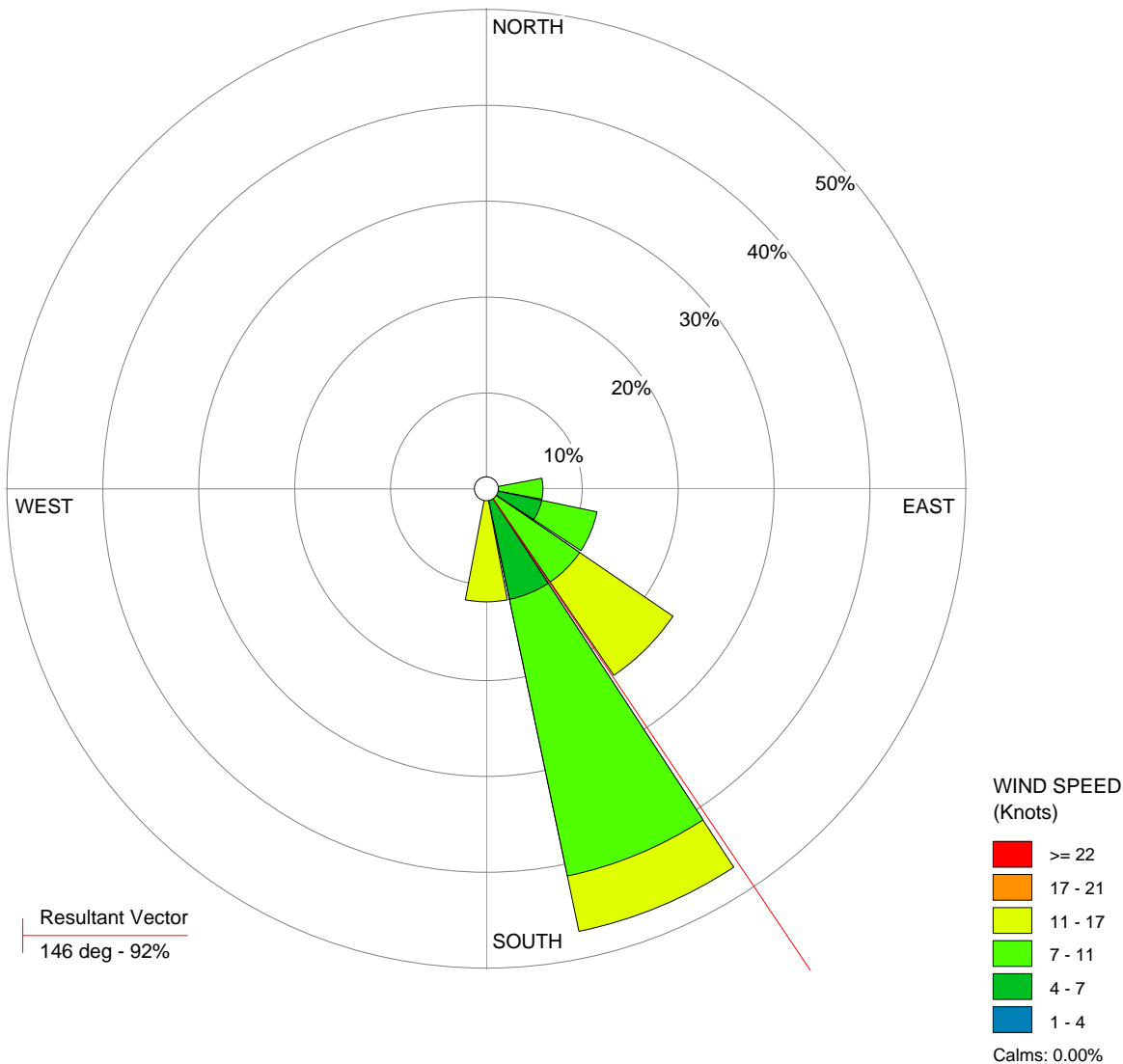


WIND ROSE PLOT:

Wind Speed and Direction 4/25/2013 16:00 to 4/26/2013 7:00
West, Tx

DISPLAY:

Wind Speed
Direction (blowing from)



COMMENTS:

Met Station: KACT Waco, TX

COMPANY NAME:

CTEH

MODELER:

Jason Callahan

CALM WINDS:

0.00%

AVG. WIND SPEED:

9.65 Knots



PROJECT NO.:

40442 - OMI